# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
## COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS

Date Sampled: 3/22/00

Sampling Team: Jeff Allred and Phan Le

| Time | Flow[1] cfs | Temp[2] °C | pH[2] | Dissol.[2] Oxygen mg/l | Specific[2] Cond. µmhos/cm | Settleable Solids[2] - ml/l | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 10 min. | 30 min. | 60 min. |
| 0700 | 241 | 16.3 | 7.9 | 1.5 | 5258 | <0.1 | <0.1 | <0.1 |
| 0800 | 241 | 16.3 | 7.9 | 1.6 | 5297 | <0.1 | <0.1 | <0.1 |
| 0900 | 243 | 16.3 | 7.9 | 2.1 | 5300 | <0.1 | 0.1 | 0.1 |
| 1000 | 245 | 16.6 | 7.9 | 2.8 | 5238 | <0.1 | <0.1 | <0.1 |
| 1100 | 285 | 16.9 | 7.9 | 2.9 | 5265 | <0.1 | <0.1 | <0.1 |
| 1200 | 272 | 17.3 | 7.9 | 2.9 | 5285 | <0.1 | <0.1 | <0.1 |
| 1300 | 264 | 17.8 | 7.9 | 3.2 | 5275 | <0.1 | <0.1 | <0.1 |
| 1400 | 260 | 18.2 | 7.9 | 3.0 | 5241 | <0.1 | <0.1 | <0.1 |
| Avg.[3] | 256 | 17.0 | 7.9 | 2.5 | 5270 | <0.1 | <0.1 | <0.1 |
| Avg.[4] | 242 | 24.5 | 7.6 | 1.1 | 4684 | 0.0 | 0.1 | 0.1 |
| Max.[5] | 299 | 32.4 | 8.2 | 11.5 | 8416 | 0.5 | 0.5 | 0.5 |
| Min.[5] | 183 | 11.3 | 7.3 | 0.0 | 1500 | <0.1 | <0.1 | <0.1 |

Observations:

0700 - Air temp is 23 °C. New River's water color is olive green. There is a slight septic odor. There is almost no foam on the River's surface. Slight breeze (NW<5 mph). The sky is clear and sunny.

0800 - Air temp is 23 °C. No other changes.

0900 - Air temp is 23 °C.

1000 - Air temp is 23 °C. Debris observed floating of the River's surface.

1100 - Air temp is 28 °C. There is a considerable amount of suspended solids, as well as floating debris/trash. New River's water color is dark green.

1200 - Air temp is 28 °C. Dead fish observed floating on the New River's surface.

1300 - Air temp is 28 °C.

1400 - Air temp is 28 °C.

[1] Reported by Imperial Irrigation District

[2] Data Collected in field; temp, pH, DO, and spec. cond. measured with multi-parameter YSI Inc. instrument.

[3] Average of above data

[4] Average of data for past 12 months

[5] Maximum and minimum values for the past 12 months.

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NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS

Date Sampled: 3/22/00

Sampling Team: Kola Olatunbosun and Nadim Zeywar

| Time | Flow[1] cfs | Temp[2] °C | pH[2] | Dissol.[2] Oxygen mg/l | Specific[2] Cond. µmhos/cm | Settleable Solids[2] - ml/l | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 10 min. | 30 min. | 60 min. |
| 1500 | 258 | 18.6 | 7.9 | 2.6 | 5237 | <0.1 | <0.1 | <0.1 |
| 1600 | 261 | 18.7 | 7.9 | 2.1 | 5265 | <0.1 | <0.1 | <0.1 |
| 1700 | 259 | 18.7 | 7.9 | 1.5 | 5270 | 0.1 | 0.1 | 0.1 |
| 1800 | 257 | 18.6 | 7.9 | 1.2 | 5296 | 0.1 | 0.2 | 0.2 |
| 1900 | 256 | 18.3 | 7.9 | 0.8 | 5293 | 0.2 | 0.2 | 0.2 |
| 2000 | 260 | 18.1 | 7.8 | 0.6 | 5311 | <0.1 | <0.1 | 0.1 |
| 2100 | 260 | 18.0 | 7.8 | 0.4 | 5274 | 0.2 | 0.2 | 0.2 |
| 2200 | 257 | 17.8 | 7.7 | 0.4 | 5271 | 0.2 | 0.2 | 0.2 |
| Avg.[3] | 258 | 18.3 | 7.8 | 1.2 | 5277 | 0.1 | 0.1 | 0.1 |

Observations:

1500 - Air temp is 29 °C. Suspended solids still present, there is no odor and no foam.
1600 - Air temp is 30 °C.
1700 - Air temp is 25 °C. Large foam "clumps" were observed.
1800 - Air temp is 18 °C. Slight septic odor, foam is still present.
1900 - Air temp is 16 °C. More foam observed than at 1800.
2000 - Air temp is 15 °C.
2100 - Air temp is 14 °C.
2200 - Air temp is 14 °C. Foam is still present.

[1] Reported by Imperial Irrigation District

[2] Data Collected in field; temp, pH, DO, and spec. cond. measured with multi-parameter YSI Inc. instrument.

[3] Average of above data

# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
## COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS

Date Sampled: 3/22-3/23/00

Sampling Team: Patricia Garcia and Rafael Molina

| Time | Flow[1] cfs | Temp[2] °C | pH[2] | Dissol.[2] Oxygen mg/l | Specific[2] Cond. µmhos/cm | Settleable Solids[2] - ml/l | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 10 min. | 30 min. | 60 min. |
| 2300 | 254 | 17.8 | 7.7 | 0.7 | 5307 | 0.1 | 0.2 | 0.2 |
| 0000 | 252 | 17.8 | 7.8 | 0.9 | 5328 | 0.1 | 0.1 | 0.1 |
| 0100 | 252 | 17.8 | 7.8 | 0.7 | 5334 | 0.1 | 0.1 | 0.1 |
| 0200 | 257 | 18.0 | 7.8 | 0.5 | 5245 | 0.1 | 0.1 | 0.1 |
| 0300 | 252 | 18.0 | 7.8 | 0.5 | 5304 | 0.5 | 0.5 | 0.5 |
| 0400 | 248 | 17.9 | 7.8 | 1.0 | 5313 | <0.1 | 0.1 | 0.1 |
| 0500 | 245 | 18.0 | 7.7 | 1.1 | 5298 | 0.1 | 0.1 | 0.1 |
| 0600 | 244 | 17.9 | 7.7 | 1.4 | 5297 | - | - | - |
| Avg.[3] | 251 | 17.9 | 7.8 | 0.8 | 5303 | 0.1 | 0.2 | 0.2 |

Observations:

2300 - Air temp is 12 °C. Mild septic odor. Moderate amount of foam.
0000 - Air temp is 11 °C.
0100 - Air temp is 10 °C. Odor seems stronger than before. Foam is still present.
0200 - Air temp is 9 °C. No other changes.
0300 - Air temp is 9 °C.
0400 - Air temp is 9 °C.
0500 - Air temp is 9 °C. The sun has begun to rise.
0600 - Air temp is 13 °C.

[1] Reported by Imperial Irrigation District
[2] Data Collected in field; temp, pH, DO, and spec. cond. measured with multi-parameter YSI Inc. instrument.
[3] Average of above data

## CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA

WATER ANALYSIS

Date Sampled: 3/22-3/23/00

Laboratory: California Department of Health Services, Los Angeles, CA

| Constituent | Storet Code | US EPA Method | Reporting Limits | Results[1] (8-hr Comp.) | Results[2] (24-hr Comp.) | Ave.[3] | Max.[3] | Min.[3] | Units |
|---|---|---|---|---|---|---|---|---|---|
| MBAS | 38260 | 425.1 | 0.025 | 0.120 | 0.122 | 0.76 | 1.36 | 0.120 | mg/l |
| Total Phosphate as P | 00665 | 365.2 | 0.01 | 0.89 | 1.21 | 1.73 | 2.55 | 0.89 | mg/l |
| Phenol | 32730 | 420.1 | 0.002 | ND | ND | 0.004 | 0.012 | ND | mg/l |
| Cyanide | 00720 | 335.2 | 0.01 | ND | 0.01 | 0.00 | 0.01 | ND | mg/l |
| Ammonia - Nitrogen ($NH_3$-N) | 00610 | 350.2 | 0.05 | 6.2 | 6.5 | 5.1 | 6.9 | 3.5 | mg/l |
| Nitrate - Nitrogen ($NO_3$-N) | 00610 | 353.2 | 0.2 | 0.5 | 0.6 | 0.1 | 0.5 | ND | mg/l |
| Nitrite - Nitrogen ($NO_2$-N) | 00610 | 353.2 | 0.03 | ND | ND | 0.01 | 0.1 | ND | mg/l |
| Hardness (as $CaCO_3$) | 00900 | 130.2 | 1 | 900 | 940 | 818 | 900 | 720 | mg/l |
| Total Alkalinity (as $CaCO_3$) | 00410 | 310.1 | 1 | 292 | 291 | 263 | 292 | 242 | mg/l |
| Bicarbonate ($HCO_3$) | 00440 | 310.1 | 1 | 356 | 355 | 317 | 356 | 294 | mg/l |
| Carbonate ($CO_3$) | 00445 | 310.1 | 1 | ND | ND | 2 | 11 | ND | mg/l |
| Hydroxide (OH) | 71930 | 310.1 | 1 | ND | ND | ND | ND | ND | mg/l |
| Total Filter. Residue (TDS) | 70300 | 160.1 | 10 | 18 | 26 | 2306 | 2910 | 18 | mg/l |
| Total Suspended Solids | 00530 | 160.2 | 10 | 3130 | 3040 | 422 | 3130 | 28 | mg/l |
| Turbidity | 82079 | 180.1 | 0.1 | 9.5 | 10 | 14 | 20 | 10 | NTU |
| $BOD_5$ @ 20$^o$C | 00310 | 405.1 | 2 | 35 | 35 | 23 | 35 | 15 | mg/l |
| COD | 00340 | 410.4 | 5 | 43 | 42 | 42 | 55 | 29 | mg/l |

| Constituent | Storet Code | US EPA Method | Reporting Limits | Results[1] (8-hr Comp.) | Results[2] (24-hr Comp.) | Ave.[3] | Max.[3] | Min.[3] | Units |
|---|---|---|---|---|---|---|---|---|---|
| As-Arsenic | 01002 | 200.9 | 2 | ND | ND | 4 | 6 | ND | µg/l |
| Cd-Cadmium | 01027 | 200.9 | 1 | ND | ND | ND | ND | ND | µg/l |
| Cr-Chromium | 01034 | 200.9 | 10 | ND | ND | ND | ND | ND | µg/l |
| Cu-Copper | 01042 | 200.9 | 10 | ND | ND | 2 | 12 | ND | µg/l |
| Pb-Lead | 01051 | 200.9 | 10 | ND | ND | ND | ND | ND | µg/l |
| Se-Selenium | 01147 | 200.9 | 5 | ND | ND | ND | ND | ND | µg/l |
| Zn-Zinc | 01092 | 289.1 | 50 | ND | ND | 61 | 124 | ND | µg/l |
| Hg-Mercury | 71900 | 245.1 | 1 | ND | ND | ND | ND | ND | µg/l |

Laboratory: Regional Board Laboratory

| Fecal Coliform[4,5] | Storet Code | Results | Median[3] | Max.[3] | Min.[3] | Units |
|---|---|---|---|---|---|---|
| 1100 (3/22) | 316315 | 40,000 | 175,000 | 800,000 | 40,000 | MPN/100ml |
| 1200 | 316315 | 40,000 | 220,000 | 1,100,000 | 40,000 | MPN/100ml |
| 1300 | 316315 | 130,000 | 175,000 | 800,000 | 80,000 | MPN/100ml |
| 1400 | 316315 | 40,000 | 150,000 | 1,300,000 | 40,000 | MPN/100ml |
| 300 (3/23) | 316315 | 300,000 | - | - | - | MPN/100ml |
| 0400 | 316315 | 220,000 | - | - | - | MPN/100ml |
| 0500 | 316315 | 170,000 | - | - | - | MPN/100ml |
| 0600 | 316315 | 110,000 | - | - | - | MPN/100ml |

[1] Resutls are from the 8-hr composite sample collected on 3/22/00 from 0700-1400.

[2] Resutls are from the 24-hr composite sample collected on 3/22-3/23/00 from 0700-0600, and are not included in any calculations.

[3] Ave, median, max, & min values for the past 12 months

[4] Grab sample taken at the indicated time.

[5] Analyzed by the Multiple Tube Fermentation Method.

ND = Not Detected

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WATER ANALYSIS

Date Sampled: 3/22-3/23/00

Laboratory: California Department of Health Services

| Analyte[1] | Storet Code | 3/22/00 0900[2] | 3/22/00 1200[2] | 3/22/00 1500[2] | 3/22/00 1800[2] | 3/22/00 2100[2] | 3/23/00 0000[2] | 3/23/00 0300[2] | 3/23/00 0600[2] | Detection Limits | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 34030 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Bromobenzene | 81555 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Bromochloromethane | A-012 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Bromodichloromethane | 32101 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Bromoform | 32104 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Bromomethane (Mehyl Bromide) | 34413 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| n-Butylbenzene | A-010 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| sec-Butylbenzene | 77350 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| tert-Butylbenzene | 77353 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Carbon Tetrachloride | 32102 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Chlorobenzene (Monochlorobenzene) | 34301 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Chloroethane | 34311 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Chloroform | 32106 | 0.63 | ND | ND | 0.98 | 1.3 | 1.2 | 1.3 | 0.77 | 0.5 | µg/l |
| Chloromethane (Methyl Chloride) | 34418 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| o-Chlorotoluene (2-Chlorotolulene) | A-008 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| p-Chlorotoluene (4-Chlorotolulene) | A-009 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Dibromochloromenhane | 32105 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Dibromomethane | 77596 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2-Dichlorobenzene (o-DCB) | 34536 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,3-Dichlorobenzene (m-DCB) | 34566 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,4-Dichlorobenzene (p-DCB) | 34571 | ND | 0.54 | 0.69 | 0.83 | 1.0 | 0.76 | 0.77 | 0.52 | 0.5 | µg/l |
| Dichlorodifluoromethane (Freon 12) | 34668 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |

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WATER ANALYSIS

Date Sampled: 3/22-3/23/00

Laboratory: California Department of Health Services

| Analyte[1] | Storet Code | 3/22/00 0900[2] | 3/22/00 1200[2] | 3/22/00 1500[2] | 3/22/00 1800[2] | 3/22/00 2100[2] | 3/23/00 0000[2] | 3/23/00 0300[2] | 3/23/00 0600[2] | Detection Limits | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane (1,1-DCA) | 34496 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2-Dichloroethane (1,2-DCA) | 34531 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,1-Dichloroethylene (1,1-DCE) | 34501 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| cis-1,2-Dichloroethylene | 77093 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| trans-1,2-Dichloroethylene | 34546 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2-Dichloropropane | 34541 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,3-Dichloropropane | 77173 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2-Dichloropropane | 77170 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,1-Dichloropropylene | 77168 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| cis- & trans-1,3-Dichloropropylene | 34561 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Ethyl benzene | 34371 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Ethylene dibromide (EDB) | 77651 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Hexachlorobutadiene | 34391 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Isopropylbenzene (Cumeme 77356) | 77223 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| p-Isopropyltoluene (p-Cymene) | A-011 | ND | ND | ND | ND | 0.57 | ND | ND | ND | 0.5 | µg/l |
| Methylene chloride (Dichloromethane) | 34423 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Methyl Ethyl Ketone | 81595 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Methyl Isobutyl Ketone | 81596 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Methyl tert-Butyl Ether (MTBE) | A-030 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Napthalene | 34696 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| n-Propylbenzene | 77224 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Styrene | 77128 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |

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WATER ANALYSIS

Date Sampled: 3/22-3/23/00

Laboratory: California Department of Health Services

| Analyte[1] | Storet Code | 3/22/00 0900[2] | 3/22/00 1200[2] | 3/22/00 1500[2] | 3/22/00 1800[2] | 3/22/00 2100[2] | 3/23/00 0000[2] | 3/23/00 0300[2] | 3/23/00 0600[2] | Detection Limits | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 77562 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,1,2,2-Tetrachloroethane | 34516 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Tetrachloroethylene (PCE) | 34475 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Toluene | 34010 | ND | ND | ND | ND | 1.3 | 0.62 | 0.86 | ND | 0.5 | µg/l |
| 1,2,3-Trichlorobenzene | 77613 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2,4-Trichlorobenzene | 34551 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,1,1-Trichloroethane (1,1,1-TCA) | 34506 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,1,2-Trichloroethane (1,1,2-TCA) | 34511 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Trichloroethylene (TCE) | 39180 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2,3-Trichloropropane | 77443 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Trichlorofluoromethane (Freon 11) | 34488 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,2,4-Trimethylbenzene | 77222 | ND | ND | ND | ND | 0.54 | ND | ND | ND | 0.5 | µg/l |
| 1,3,5-Trimethylbenzene | 77226 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| 1,1,2-Trichloro-trifluoroethane (Freon 113) | 81611 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| Vinyl chloride (VC) | 39175 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |
| m,p-Xylenes | A-014 | ND | ND | ND | ND | 0.85 | ND | ND | ND | 0.5 | µg/l |
| o-Xylene | 77135 | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | µg/l |

ND = Not Detected

[1] USEPA Method 524.2

[2] Results are for each grab sample collected at the specified time/date, the first sample was collected @ 0900 on 3/22/00. The last was collected @ 0600 on 3/23/00.